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Sheet <u>1</u> of <u>3</u>		FORM PTO 1449 (modified)		ATTY DOCKET NO. 032026:0578		TECH CENTER 1600/2500 09/847,010	
U.S. DEPARTMENT OF COMMERCE				APPLICANTS: Perry A Frey, Frank J. Ruzicka			
Date of Mailing: April 25, 2003				FILING DATE May 1, 2001		GROUP 1652	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
RA		R1	Costilow, R.N. <i>et al.</i> , "Isolation and Identification of β -Lysine as an Intermediate in Lysine Fermentation, Journal of Biological Chemistry, Vol. 241, No. 7, pp. 1573-1580 (1966).				
		R2	Chirpich, T.P. <i>et al.</i> , "Purification and Properties of a Pyridoxal Phosphate and S-Adenosylmethionine Activated Enzyme", J. Biol. Chem., Vol. 245, No. 7, pp. 1778-1789 (1970).				
		R3	Zappla, V. and Barker, H.A., "Studies on Lysine 2,3-Aminomutase Subunit Structure and Sulfhydryl Groups", Biochim. Biophys. Acta, Vol. 207, pp. 505-513 (1970).				
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		R5	Aberhart, D.J. <i>et al.</i> , "Stereochemistry of Lysine 2,3-Aminomutase Isolated from <i>Clostridium subterminale</i> Strain SB4", Journal of the American Chemical Society, Vol. 105, pp. 5461-5470 (1983).				
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		R7	Moss, M. and Frey, P.A., "The Role of S-Adenosylmethionine in the Lysine 2,3-Aminomutase Reaction", The Journal of Biological Chemistry, Vol. 262, No., 31, pp. 14859-14862 (1987).				
		R8	Aberhart, D.J., "Studies on the Mechanism of Lysine 2,3-Aminomutase", J. Chem. Soc. Perkin Trans. 1, pp. 343-350 (1988).				
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R10			Baraniak, J. <i>et al.</i> , "Lysine 2,3-Aminomutase", The Journal of Biological Chemistry, Vol. 264, No. 3, pp. 1357-1360 (1989).
R11			Frey, P.A. <i>et al.</i> , "The Roles of S-Adenosylmethionine and Pyridoxal Phosphate in the Lysine 2,3-Aminomutase Reaction", Annals of the New York Academy of Sciences, Vol. 585, pp. 368-378 (1990).
R12			Moss, M.L. and Frey, P.A., "Activation of Lysine 2,3-Aminomutase by S-Adenosylmethionine", The Journal of Biological Chemistry, Vol. 265, No. 30, pp. 18112-18115 (1990).
R13			Song, K.B. and Frey, P.A., "Molecular Properties of Lysine-2,3-Aminomutase", The Journal of Biological Chemistry, Vol. 266, No. 12, pp. 7651-7655 (1991).
R14			Petrovich, R. M. <i>et al.</i> , "Metal Cofactors of Lysine-2,3-Aminomutase", The Journal of Biological Chemistry, Vol. 266, No. 12, 7656-7660 (1991).
R15			Kilgore, J.L. and Aberhart, D.J., "Lysine 2,3-Aminomutase: Role of S-Adenosyl-L-Methionine in the Mechanism. Demonstration of Tritium Transfer from (2RS, 3RS)-[3- ³ H]Lysine to S-Adenosyl-L-Methionine", J. Chem. Soc. Perkin Trans 1, pp. 79-84 (1991).
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R17			Ballinger, M.D. <i>et al.</i> , "An Organic Radical in the Lysine 2,3-Aminomutase Reaction", Biochemistry, Vol. 31, No. 4, pp. 949-953 (1992).
R18			Petrovich, R.M. <i>et al.</i> , "Characterization of Iron-Sulfur Clusters in Lysine 2,3-Aminomutase by Electron Paramagnetic Resonance Spectroscopy", Biochemistry, Vol. 31, No. 44, pp. 10774-10781 (1992).
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R21			Fleischmann, Robert D., <i>et al.</i> , "Whole-Genome Random Sequencing and Assembly of Haemophilus influenzae Rd," Science, Vol. 269, pp. 496-512 (1995).
R22			Koskinen, A.M.P., "Asymmetry: To Make a Distinction", Pure & Appl. Chem., Vol. 67, No. 7, pp. 1031-1036 (1995).
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R27			Stadtman, T., "Lysine Metabolism by Clostridia," Advances in Enzymology, A. Meister, Ed., New York, pp. 413-448, 1973.
R28			Baker, J. J. and Stadtman, T.C., "Amino Mutases", B ₁₂ . Vol. 2, Biochemistry and Medicine, pp. 203-232, 1982.
R29			Blattner, Fredrick R., <i>et al.</i> , "The Complete Genome Sequence of Escherichia coli K-12," Science, Vol. 277, pp. 1453-1462, (1997).
R30			Deckert, <i>et al.</i> , "The complete genome of the hyperthermophilic bacterium Aquifex aeolicus," Nature, Vol. 392, pp. 353-358, (1998).

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RA		R31	Fraser, et al., "Complete Genome Sequence of Treponema pallidum, the Syphilis Spirochete," Science, Vol. 281, pp. 375-388, (1998).
RA		R32	Deckert, et al., "The Complete Genome of the Hyperthermophilic Bacterium Aquifex aeolicus," Genbank Accession No: E70341, <u>5/18/98</u> .
RA		R33	Fraser, et al., "Complete Genome Sequence of Treponema pallidum, the Syphilis Spirochete, Genbank Accession No: AE001197, <u>7/11/98</u> .
EXAMINER			DATE CONSIDERED <u>7/11/03</u>

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.